BRUHAT BANGALORE MAHANAGARA PALIKE

Office of the Executive Engineer, Rajarajeshwari Nagara Division, RR Nagara Zone, B.B.M.P., Bangalore.

Tender Notification No. RRND/EE/Ten/08/2015-16, Date: 06.10.2015

E-procurement No: BBMP/2015-16/BD/WORK_INDENT17929

SCHEDULE -B

Name of Work : Construction of Gym building near HMT Ground (JP Park) in ward no 17

Sl.No	Qty	Description of work	Unit	Negotiated Rates Quoted by the Contractor (M MANJUNATH)	
				In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	119.70	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification.	cum	207.00	Rupees Two Hundred Seven Only
2	19.72	Providing and laying plain cement concrete of mix M7.5 with OPC cement @180kgs with 40mm and down size graded granite metal, coarse aggregates @0.86cum and fine aggregates @0.568cum machine mixed, concrete laid in layers not exceeding 15 crns. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum	5470.00	Rupees Five Thousand Four Hundred Seventy Only
3	105.00	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregtes@0.459cum, with superplatisiser @3lts confirming to ISO 103-1999 Reaffirmed-2008,machine mixed, concrete laid in layers not exceeding 15 cms thick vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness including attached plasters, columns, piers, abutments, pillars, pots, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc.., including cost of materials, labour, HOM of machinery, curing, complete as per specification.	cum	8700.00	Rupees Eight Thousand Seven Hundred Only

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4	12.22	(a) for 1st floor	cum	6745.00	Rupees Six Thousand Seven Hundred Forty Five Only
5	15.00	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	tonne	76120.00	Rupees Seventy Six Thousand One Hundred Twenty Only
6	134.40	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.	sqm	150.00	Rupees One Hundred Fifty Only
7	195.00	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.	sqm	331.00	Rupees Three Hundred Thirty One Only
8	64.80	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification.	sqm	413.00	Rupees Four Hundred Thirteen Only
9	51.80	(a) for 1st floor	sqm	436.00	Rupees Four Hundred Thirty Six Only
10	78.02	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.	sqm	383.00	Rupees Three Hundred Eighty Three Only
11	17.94	(a) for 1st floor	sqm	405.00	Rupees Four Hundred Five Only
12	105.80	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications.	sqm	200.00	Rupees Two Hundred Only

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13	105.80	(a) for 1st floor	sqm	378.00	Rupees Three Hundred Seventy Eight Only
14	12.38	Providing and constructing granite I trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	cum	4454.00	Rupees Four Thousand Four Hundred Fifty Four Only
15	1.65	Providing and laying plain cement concrete of mix M10 with OPC cement @220kgs with 20mm and down size graded granite metal, coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not exceeding 15 crns. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum	5925.00	Rupees Five Thousand Nine Hundred Twenty Five Only
16	55.20	Filling available excavated earth (excluding rock) in sides of foundations up to plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with a lead up to 50 m. and lift up to 1.5 m. including cost of all labour complete as per specifications.	cum	138.00	Rupees One Hundred Thirty Eight Only
17	134.76	Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1 :4 (Jamb, closer blocks) with blocks of size 40x20x20cms. (LxBxH) conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	sqm	1097.00	Rupees One Thousand Ninety Seven Only
18	156.66	(a) for 1st floor	sqm	1131.00	Rupees One Thousand One Hundred Thirty One Only
19	144.20	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	sqm	258.00	Rupees Two Hundred Fifty Eight Only
20	158.00	(a) for 1st floor	sqm	264.00	Rupees Two Hundred Sixty Four Only

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21	150.00	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. inside Plastering	sqm	182.00	Rupees One Hundred Eighty Two Only
22	134.16	(a) for 1st floor	sqm	188.00	Rupees One Hundred Eighty Eight Only
23	104.16	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	sqm	219.00	Rupees Two Hundred Nineteen Only
24	162.66	(a) for 1st floor	sqm	225.00	Rupees Two Hundred Twenty Five Only
25	120.00	Providing and fixing Special make glazed vitrified tiles (Granomite finish) of approved make, quality and colour of size 600X600X10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc.., complete including providing spears at required size and fixing etc.., complete	sqm	1336.00	Rupees One Thousand Three Hundred Thirty Six Only
26	120.00	(a) for 1st floor	sqm	1337.00	Rupees One Thousand Three Hundred Thirty Seven Only
27	150.00	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. With Primer	sqm	99.00	Rupees Ninety Nine Only
28	134.16	(a) for 1st floor	sqm	102.00	Rupees One Hundred Two Only
29	104.16	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications	sqm	327.00	Rupees Three Hundred Twenty Seven Only

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30	162.66	(a) for 1st floor	sqm	330.00	Rupees Three Hundred Thirty Only
31	0.12	Providing Mathi/Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications	cum	92400.00	Rupees Ninety Two Thousand Four Hundred Only
32	6.00	Providing and fixing in position Honne wood class-II fully pannelled shutters for doors, styles and rails of 35mm. thick with bottom and lock rails 180mm wide top rail and styles 1 00mm wide as per drawing and panels of 25mm thick, 4mm thick plain glass, fixed with beading 15mm wide and thickness to finish with the shutters surface including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)	sqm	4702.00	Rupees Four Thousand Seven Hundred Two Only
33	22.68	Providing and applying painting two coats (excluding priming coat) on new wood surface and /or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.	sqm	94.00	Rupees Ninety Four Only
34	252.00	Providing and fixing M.S. grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.	sqm	99.00	Rupees Ninety Nine Only
35	27.00	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	sqm	92.00	Rupees Ninety Two Only
36	34.80	Providing and fixing 20mm thick gang saw water cut sadarahalli grey granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing	sqm	2250.00	Rupees Two Thousand Two Hundred Fifty Only

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37	14.40	Providing and fixing pull and push type rolling shutters of approved make out of 18 gauge, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4 Nos, handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8m Specification No. KBS 7.10 / 7.12	sqm	3120.00	Rupees Three Thousand One Hundred Twenty Only
38	28.80	Providing and fixing Stainless steel staircase railing as per Chief Architect Drawing no.11520/HRSC with hand rail 50mm dia 16 gauge hollow pipe welded to vertical hollow 50mm dia pipe of 16 gauge, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 nos of 25mm dia.stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc.., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications	sqm	1020.00	Rupees One Thousand Twenty Only
39	1.00	Raw water Feed pump with starter,Type-Horizontal ,Centrifugal.Make-Kirloskar/Beacon weir/Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC. Motor-3.0HPthree phase.Starter-L&T Siemen make push botton type DOL Starter	Nos	26950.00	Rupees Twenty Six Thousand Nine Hundred Fifty Only
40	1.00	Multi graded sand filter,type-verticle,Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel,Graded Sand & Pebble	Nos	36218.00	Rupees Thirty Six Thousand Two Hundred Eighteen Only

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41	1.00	Activated carbon Filter type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE (INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure - 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel, Activated Carbon & pebbles	Nos	68700.00	Rupees Sixty Eight Thousand Seven Hundred Only
42	1.00	Water Softner,type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of Resin INDION 220Na or Thermax T40	Nos	68045.00	Rupees Sixty Eight Thousand Forty Five Only
43	1.00	Antiscalant Dosing System,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back Pressure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure=3.12Lit/Hr @ 4Bar,Chemical to be dosed-INDION Antiscalant	Nos	93288.00	Rupees Ninety Three Thousand Two Hundred Eighty Eight Only
44	1.00	Accessories for Dosing System,Solution Tank-One No,Volume-100Litres,Material of Construction-HDPE,Tank level Switch-One No.	Nos	46095.00	Rupees Forty Six Thousand Ninety Five Only
45	1.00	Reverse Osmosis System,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 2000litr/hr,Maximum Permissable TDS in feed (PPM)-2500.	Nos	97800.00	Rupees Ninety Seven Thousand Eight Hundred Only
46	1.00	Pressure Vessel,Material of Construction-FRP,Make-Advance Composite/Code Line.	Nos	93288.00	Rupees Ninety Three Thousand Two Hundred Eighty Eight Only
47	1.00	Membrane, Type-Brackish water . Nos required-Three.Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep	Nos	96600.00	Rupees Ninety Six Thousand Six Hundred Only
48	1.00	High pressure pump,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN series,Material of construction-SS316,starter-L&T/Seimens make push botton type DOL starter	Nos	60400.00	Rupees Sixty Thousand Four Hundred Only
49	1.00	Micron Filter,Type -JUMBO,Material of construction of housing-poly propelene	Nos	85605.00	Rupees Eighty Five Thousand Six Hundred Five Only

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50	1.00	Instruction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High Pressure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector Switch -one No, High pressure System Pressure Gauge - one No, Auto Flush Timer -one No, Indication Lamps -one No, product Flow Meter- one No, Reject Flow Meter-one No,Reject Re-circolation Meter-one No,Alarm-one No	Nos	94385.00	Rupees Ninety Four Thousand Three Hundred Eighty Five Only
51	1.00	pH correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion Exchange(1) Ltd.,/ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure-2.88 Lit/Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, Chemical to be dosed-PH Booster	Nos	91093.00	Rupees Ninety One Thousand Ninety Three Only
52	1.00	Solution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE. Tank levelswitch-one No	Nos	16463.00	Rupees Sixteen Thousand Four Hundred Sixty Three Only
53	1.00	Inter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet (up to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, Make-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, Approximate Length-35.0 Metre	Nos	85605.00	Rupees Eighty Five Thousand Six Hundred Five Only
54	1.00	Ultra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,ALFA Flow rate-2000L/H	Nos	81900.00	Rupees Eighty One Thousand Nine Hundred Only
55	1.00	RO water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles	Nos	88000.00	Rupees Eighty Eight Thousand Only
56	1.00	Wending Machine ,Digital Swiping Card Type	Nos	38413.00	Rupees Thirty Eight Thousand Four Hundred Thirteen Only
57	50.00	a) 0.00 to50.00 Mtr	Rmtr	336.00	Rupees Three Hundred Thirty Six Only
58	50.00	b) 50.00 to 100.00mtr	Rmtr	439.00	Rupees Four Hundred Thirty Nine Only
59	50.00	c) 100.00 to 150.00 Mtr	Rmtr	488.00	Rupees Four Hundred Eighty Eight Only

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60	50.00	d)150.00 to 200.00mtr	Rmtr	516.00	Rupees Five Hundred Sixteen Only
61	50.00	e) 200.00 to 250.00mtr	Rmtr	597.00	Rupees Five Hundred Ninety Seven Only
62	20.00	Supply of ISI Mark 175mm nominal Bore, Plain end steel casing Pipe-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty.	Rmtr	1454.00	Rupees One Thousand Four Hundred Fifty Four Only
63	10.00	a) Above 20mtrs and upto 30mtrs.@15%	Rmtr	50.00	Rupees Fifty Only
64	15.00	b) Above 30mtrs@30%	Rmtr	100.00	Rupees One Hundred Only
65	5.00	175mm M.S. B-Class Casing Collar (P.No.ii,I.No.55)	Nos	165.00	Rupees One Hundred Sixty Five Only
66	1.00	175mm dia Casing Cap	Nos	110.00	Rupees One Hundred Ten Only
67	1.00	Supply and delivery at site brand new submesible PUMPSET suitable for bore well of 150 mm dia and having declared duty conditions as detailed below and satisfying performances characteristics for pump and motor as declared by bureau of Indian standards. The pump should confirm to IS:8034-1970 (with all its latest amendments) and should bear the ISI mark 12.5 HP 20 stage (CRI Pumps) H=150m dish 150 LPM	Set	66000.00	Rupees Sixty Six Thousand Only
68	290.00	Supply and Delivery of Galvanized Mild steel Heavy Class (C-Class) conforming to IS 1239-1979 PART-I/1979 with lastest amendments with ISI mark (one end fitted with ISI mark heavy duty collar and other end fitted with Protective cover) 50 mm dia……..50mm dia G.I Pipe with heavy duty	Rmtr	412.00	Rupees Four Hundred Twelve Only

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69	600.00	submersible Cable: Supply and Delivery of brand new best make PVC insulated cable of flat 3core (sheathed) of nominal cross sectional area containing to IS 894-1997 with latest amendments (as per SPD) 4 Square mm.....280*2+10	Rmtr	89.00	Rupees Eighty Nine Only
70	48.00	50 mm dia GI Collar Heavy duty	Nos	143.00	Rupees One Hundred Forty Three Only
71	1.00	Meter and Panel Board: Supply and Delivery of Meter and Panel Board: Meter Board unit one number of MS Box of size 300x120 mm size fabricated out of 2mm thick sheet metal with sealable door arrangement for munting the CTS (if any) cutouts 3phase dia 4 wire energy meter and cable box complete. A transparent glass piece should be provided where the energy meter reading could be read. Panel Board: One number of cubicle type of control panel board to operate on 50c/400/400v Upto 10 to 20 HP	Nos	12073.00	Rupees Twelve Thousand Seventy Three Only
72	1.00	50mm dia G.I.N.R. Valve	Nos	940.00	Rupees Nine Hundred Forty Only
73	1.00	Erection & Commissioning of work of pumpset including aligning and balancing with all necessary erection of materials and labour including supply and erection of two pair of supporting clamps, one borewell cap, cable clips and water tight gland cable protectors, bolts nuts valves and gauges etc, all job including fixing sluice valve, non return valve etc, and connecting delivery side of pumpset to rising main etc, complete.	Rmtr	933.00	Rupees Nine Hundred Thirty Three Only
74	1.00	Power Capacitor: Supply and Delivery of brand new best make capacitor conforming to IS:2834-1986 with latest amendments with ISI mark of required capacity tested and approved by KPTCL anthorities and erection, electrification and commissioning of the same at the location of the respective pumpsets. Supply & Delivery of best indigenous brand new MCB (Miniature Circutit Breaker) of required capacity as per IS:8828-1978 and its latest amendment with ISI mark 6/10/20/25/40 amps with sealble box with MCB 3 KVAR	Rmtr	505.00	Rupees Five Hundred Five Only

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